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The row drivers drive the red, green and blue emitters in each row line. Row driver 72 drives red emitters 44a and 44b, green emitters 48a and 48b, as well as blue emitter 42b. Row driver 74 drives green emitters 46a and 46b, red emitters 50a and 50b and blue emitter 42a. Each emitter can be driven at continuous luminance values at specific locations in a pixel element, unlike emitters in the prior art, which are driven at discrete luminance values at random locations in a three-color pixel element. - -

## Page 19, line 13 to Page 20, line 14.

-- FIG. 7 is a diagram of an illustrative drive matrix 78 for the arrangement 76. The illustrative drive matrix 78 shown in FIG. 7 consists of a 2 X 10 drive matrix, where eight column drivers drive the eight red and eight green emitters coupled to column lines and two column drivers drive the four blue emitters coupled to column lines. A first column driver 94 drives the red emitter 52a and the green emitter 54a. The blue emitters 80a and 80c are tied together and driven by a second column driver 96. A third column driver 98 drives the green emitter 56a and the red emitter 58a, while a fourth column driver 100 drives the red emitter 52b and the green emitter 54b. A fifth column driver 102 drives the blue emitter 80b, which is tied together with 80d. The green emitter 56b and the red emitter 58b are driven by a sixth column driver 104, while a seventh column driver 106 drives red emitter 52c and green emitter 54c. An eighth column driver 108 drives green emitter 56c and red emitter 58c, while a ninth column driver 110 drives red emitter 52d and green emitter 54d. Finally, a tenth column driver 112 drives green emitter 56d and red emitter 58d.

The row drivers drive the red, green and blue emitters in each row line. Row driver 90 drives red emitters 52a, 52b, 52c, and 52d, green emitters 56a, 56b, 56c, and 56d, as well as blue emitters 80c and 80d. Row driver 92 drives green emitters 54a, 54b, 54c, and 54d, red emitters 58a, 58b, 58c, and 58d, and blue emitters 80a and 80b. Each emitter can be driven at continuous luminance values at specific locations in a pixel element, unlike emitters in the prior art, which are driven at discrete luminance values at random locations in a three-color pixel element. -

## Page 22, line 4 to Page 23, line 8.

-- FIG. 9 is a diagram of an illustrative drive matrix 116 for the three-color pixel element arrangement 114. The illustrative drive matrix 116 shown in FIG. 9 consists of a 2 X 10 drive matrix, where eight column drivers drive the eight red and eight green



emitters coupled to column lines and two column drivers drive the four blue emitters coupled to column lines. A first column driver 140 drives the red emitter 120a and the green emitter 122a. The blue emitters 130a, 132a, 130c, and 132c are tied together and driven by a second column driver 142. A third column driver 144 drives the green emitter 124a and the red emitter 126a, while a fourth column driver 146 drives the red emitter 120b and the green emitter 122b. A fifth column driver 148 drives blue emitters 130b and 132b, which are tied together with 130d and 132d. The green emitter 124b and the red emitter 126b are driven by a sixth column driver 150, while a seventh column driver 152 drives red emitter 120c and green emitter 122c. An eighth column driver 154 drives green emitter 124c and red emitter 126c, while a ninth column driver 156 drives red emitter 120d and green emitter 122d. Finally, a tenth column driver 158 drives green emitter 124d and red emitter 126d.

The row drivers drive the red, green and blue emitters in each row line. Row driver 160 drives red emitters 120a, 120b, 120c, and 120d, green emitters 124a, 124b, 124c, and 124d, as well as blue emitters 130c, 132c, 130d, and 132d. Row driver 162 drives green emitters 122a, 122b, 122c, and 122d, red emitters 126a, 126b, 126c, and 126d, and blue emitters 130a, 132a, 130b, and 132b. Each emitter can be driven at continuous luminance values at specific locations in a pixel element, unlike emitters in the prior art, which are driven at discrete luminance values at random locations in a three-color pixel element. - -

## Page 25, line 1 to Page 26, line 3.

-- FIG. 11 is a diagram of an illustrative drive matrix 166 for the three-color pixel element arrangement 164. The illustrative drive matrix 78 shown in FIG. 11 consists of a 2 X 10 drive matrix, where eight column drivers drive the eight red and eight green emitters coupled to column lines and two column drivers drive the four blue emitters coupled to column lines. A first column driver 178 drives the red emitter 170a and the green emitter 172a. The blue emitters 168a and 168c are tied together and driven by a second column driver 180. A third column driver 182 drives the green emitter 174a and the red emitter 176a, while a fourth column driver 184 drives the red emitter 170b and the green emitter 172b. A fifth column driver 186 drives the blue emitter 168b, which is tied together with 168d. The green emitter 174b and the red emitter 176b are driven by a sixth column driver 188, while a seventh column driver 190 drives red emitter 170c and green emitter 172c. An eighth column driver 192 drives green emitter 174c and red





emitter 176c, while a ninth column driver 194 drives red emitter 170d and green emitter 172d. Finally, a tenth column driver 196 drives green emitter 174d and red emitter 176d.

The row drivers drive the red, green and blue emitters in each row line. Row driver 198 drives red emitters 170a, 170b, 170c, and 170d, green emitters 174a, 174b, 174c, and 174d, as well as blue emitters 168c and 168d. Row driver 200 drives green emitters 172a, 172b, 172c, and 172d, red emitters 176a, 176b, 176c, and 176d, and blue emitters 168a and 168b. Each emitter can be driven at continuous luminance values at specific locations in a pixel element, unlike emitters in the prior art, which are driven at discrete luminance values at random locations in a three-color pixel element. - -

## Page 28, line 8 to Page 29, line 16.

-- FIG. 13 is a diagram of an illustrative drive matrix 254 for the three-color pixel element arrangement 201 illustrated in FIG. 12. The illustrative drive matrix 254 shown in FIG. 13 consists of a 2 X 10 drive matrix, where eight column drivers drive the thirtytwo red and eight green emitters coupled to column lines and two column drivers drive the ten blue emitters coupled to column lines. A first column driver 234 drives the red emitters 202a, 212a and the green emitters 204a, 214a. The blue emitters 210a, 220a are tied together with blue emitters 222a, 210c, 224a and are driven by a second column driver 236. A third column driver 238 drives the green emitters 206a, 216a and the red emitters 208a, 218a, while a fourth column driver 240 drives the red emitters 202b, 212b and the green emitters 204b, 214b. A fifth column driver 242 drives the blue emitters 210b, 220b, which is tied together with 222b, 210d, 224b. The green emitters 206b, 216b and the red emitters 208b, 218b are driven by a sixth column driver 244, while a seventh column driver 246 drives red emitters 202c, 212c and green emitters 204c, 214c. An eighth column driver 248 drives green emitters 206c, 216c and red emitters 208c, 218c, while a ninth column driver 250 drives red emitters 202d, 212d and green emitters 204d, 214d. Finally, a tenth column driver 252 drives green emitters 206d, 216d and red emitters 208d, 218d.

The row drivers drive the red, green and blue emitters in each row line. Row driver 226 drives red emitters 202a, 202b, 202c, and 202d, green emitters 206a, 206b, 206c, and 206d, as well as blue emitters 210a, 210b, 222a, 222b. Row driver 228 drives green emitters 204a, 204b, 204c, and 204d, red emitters 208a, 208b, 208c, and 208d, and blue emitters 210c, 210d. Row driver 230 drives red emitters 212a, 212b, 212c, and 212d, green emitters 216a, 216b, 216c, and 216d, as well as blue emitters 220a, 220b.

